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HTML static code analysis

Unique rules to find Bugs, Security Hotspots, and Code Smells in your HTML code

All rules 65 Bug 24 Security Hotspot 3 Code Smell 38

Tags

Search by name...

Table cells should reference their headers



Tables used for layout should not include semantic markup



Tables should have headers



"<html>" element should have a language attribute



<script>...</script> elements should not be nested



"<th>" tags should have "id" or "scope" attributes



"<title>" should be present in all pages



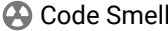
"<!DOCTYPE>" declarations should appear before "<html>" tags



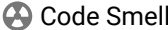
Elements deprecated in HTML5 should not be used



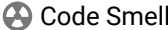
HTML "<table>" should not be used for layout purposes



"aria-label" or "aria-labelledby" attributes should be used to differentiate similar elements



Videos should have subtitles



Image, area and button with image tags should have an "alt" attribute

Analyze your code

Bug Minor accessibility wcag2-a

The alt attribute provides a textual alternative to an image.

It is used whenever the actual image cannot be rendered.

Common reasons for that include:

- The image can no longer be found
- Visually impaired users using a screen reader software
- Images loading is disabled, to reduce data consumption on mobile phones

It is also very important to not set an alt attribute to a non-informative value. For example `` is useless as it doesn't give any information to the user. In this case, as for any other decorative image, it is better to use a CSS background image instead of an `` tag. If using CSS background-image is not possible, an empty `alt=""` is tolerated. See Exceptions bellow.

This rule raises an issue when

- an `<input type="image">` tag or an `<area>` tag have no alt attribute or their alt attribute has an empty string value.
- an `` tag has no alt attribute.

Noncompliant Code Example

```
 <!-- Noncompliant -->
<input type="image" src="bar.png" /> <!-- Noncompliant -->
<input type="image" src="bar.png" alt="" /> <!-- Noncompliant -->


<map id="map1" name="map1">
  <area shape="rect" coords="0,0,42,42"
    href="bedroom.html"/> <!-- Noncompliant -->
  <area shape="rect" coords="0,0,21,21"
    href="lounge.html" alt="" /> <!-- Noncompliant -->
</map>
```











Compliant Solution

```

<input type="image" src="bar.png" alt="Textual description of bar." />


<map id="map1" name="map1">
  <area shape="rect" coords="0,0,42,42"
    href="bedroom.html" alt="Bedroom" />
  <area shape="rect" coords="0,0,21,21"
    href="lounge.html" alt="Lounge" />
</map>
```

Exceptions

<div>Attributes deprecated in HTML5 should not be used</div> <div> Code Smell</div>
<div>Sections of code should not be commented out</div> <div> Code Smell</div>
<div>Track uses of "FIXME" tags</div> <div> Code Smell</div>
<div>Meta tags should not be used to refresh or redirect</div> <div> Code Smell</div>
<div>Links should not directly target images</div> <div> Code Smell</div>
<div>"" and "" tags should be used</div> <div> Bug</div>
<div>"" and "<dt>" item tags should be in "", "" or "<dl>" container tags</div> <div> Bug</div>
<div>Server-side image maps ("ismap" attribute) should not be used</div> <div> Bug</div>
<div>"<frames>" should have a "title" attribute</div> <div> Bug</div>
<div>"<fieldset>" tags should contain a "<legend>"</div> <div> Bug</div>
<div>Flash animations should be embedded</div>

 tags with empty string alt="" attributes won't raise any issue. However this technic should be used in two cases only:

When the image is decorative and it is not possible to use a CSS background image. For example, when the decorative is generated via javascript with a source image coming from a database, it is better to use an tag rather than generate CSS code.

```
<li *ngFor="let image of images">
  <img [src]="image" alt="">
</li>
```

When the image is not decorative but it's alt text would repeat a nearby text. For example, images contained in links should not duplicate the link's text in their alt attribute, as it would make the screen reader repeat the text twice.

```
<a href="flowers.html">
  
  A blooming tulip
</a>
```

In all other cases you should use CSS background images.

See [W3C WAI Web Accessibility Tutorials](#) for more information.

See

- [WCAG2, H24](#) - Providing text alternatives for the area elements of image maps
- [WCAG2, H36](#) - Using alt attributes on images used as submit buttons
- [WCAG2, H37](#) - Using alt attributes on img elements
- [WCAG2, H67](#) - Using null alt text and no title attribute on img elements for images that AT should ignore
- [WCAG2, H2](#) - Combining adjacent image and text links for the same resource
- [WCAG2, 1.1.1](#) - Non-text Content
- [WCAG2, 2.4.4](#) - Link Purpose (In Context)
- [WCAG2, 2.4.9](#) - Link Purpose (Link Only)

Available In:

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